## For Notes, Syllabus, Question Papers: www.AllAbtEngg.com

	Reg. No. :		80 103
Qu	estion Paper Co	de : 4090	3
CS 644 (Electronics and In	h. DEGREE EXAMINATI Fourth Semeste Electrical and Electronics 66 – OBJECT ORIENTED strumentation Engineerin Engineering) (Regulations 20)	er Engineering PROGRAMMIN ng/Instrumentati	IG
Time: Three Hours		Ma	ximum: 100 Marks
	Answer ALL quest	ions	
	PART – A		(10×2=20 Marks)
1. What is an object?	Give example.		
2. Define an abstract	data type.		
3. What is a member i	function?	garliana matao	
4. Define polymorphis	m.		
5. Outline the relation	ship between containers, ite	erators and algori	thms.
6. Write the syntax fo	r defining a function templa	te.	
7. What is a class? Gi	ve an example for a class in	java.	
8. Name the access me	odifiers in java.		lo surak
9. Define a package in	java and write the syntax t	o declare a packa	ge.
10. What is multithrea	ding?		
	PART – B		(5×13=65 Marks)
11. a) Appraise the cha	aracteristics of object oriente (OR)	ed programming l	
b) Compare the fea	tures of C++ and Java.		(13)

## For Notes, Syllabus, Question Papers: www.AllAbtEngg.com

	40	908		
	12.	a)	Write a C++ program to sort an array of 'n' numbers in ascending order classes and member functions.	r. Use (13)
			(OR)	
		b)	What is an iterator? Explain with an example iterators in C++.	(13)
	13.	a)	What is a template? Outline the need for templates in C++ and appraise an example the different types of templates.	with (13)
			(OR)	
		b)	What is inheritance? Explain with an example the different types of inherin C++.	tance (13)
	14.	a)	Explain with an example the control statements in Java.  (OR)	(13)
		b)	Write a Java program to accept two matrices, multiply the matrices and the result. Use classes and methods.	print (13)
	15.	a)	What is a java interface? How to implement an interface? Explain wi example.	th an (13)
			(OR)	
		b)	What is exception handling? Explain with an example exception handling java.	ing in (13)
2			PART - C (1×15=1	5 Marks)
	16.	a)	Write a C++ program to perform the following:	(15)
			Define a class account to represent a bank account. Include the following	
			Data members:	allyi T
			Account number	
			Name of the depositor	
			Type of account	
			Balance amount in the account	
			Balance amount in the account  Member functions:	
			Balance amount in the account  Member functions:      To assign initial values	
			<ul> <li>Balance amount in the account</li> <li>Member functions:</li> <li>To assign initial values</li> <li>To deposit an amount</li> </ul>	
			<ul> <li>Balance amount in the account</li> <li>Member functions:</li> <li>To assign initial values</li> <li>To deposit an amount</li> <li>To withdraw an amount after checking the balance</li> </ul>	
			<ul> <li>Balance amount in the account</li> <li>Member functions:</li> <li>To assign initial values</li> <li>To deposit an amount</li> </ul>	
			<ul> <li>Balance amount in the account</li> <li>Member functions:</li> <li>To assign initial values</li> <li>To deposit an amount</li> <li>To withdraw an amount after checking the balance</li> </ul>	